

AMENDMENTS TO THE CLAIMS

1 -49. (Canceled)

50. (Previously Presented) An electronic camera, comprising:
an imaging device configured to image a subject in a luminance mode to generate raw image data,

wherein the luminance mode is one of at least a first luminance mode and a second luminance mode,

wherein in the first luminance mode, the imaging device images the subject in a first luminance range,

wherein in the second luminance mode, the imaging device images the subject in a second luminance range different than the first luminance range;
and

wherein in at least one of the first luminance mode and the second luminance mode, the imaging device images the subject with an exposure value that is lower than a normal exposure value for a desired reproducing;

a processing device configured to generate converted image data by processing the raw image data based on the luminance mode of the raw image data; and

a recording device configured to record the converted image data in a storage area and configured to record the luminance mode of the raw image data in the storage area separately from the converted image data.

51. (Previously Presented) The electronic camera as set forth in claim 50, wherein the recording device records the converted image data and the luminance mode of the raw image data in a same file as the converted image data.

52. (Previously Presented) The electronic camera as set forth in claim 50, wherein the first luminance range is wider than a luminance range of an image reproducing device and the second luminance range is substantially the same as the luminance range of the reproducing device.

53. (Previously Presented) The electronic camera as set forth in claim 50, wherein the processing device comprises:

a gradation conversion device configured to convert the raw image data to the converted image data based on a gradation conversion function,

wherein the recording device is configured to record the gradation recording function in the storage area in a same file as the converted image data.

54. (Previously Presented) The electronic camera as set forth in claim 53, wherein the first luminance range is wider than the second luminance range and gradation conversion device configured to convert the raw image data to the converted image data based on the gradation conversion function when the electronic camera is in the first luminance mode.

55. (Previously Presented) The electronic camera as set forth in claim 53, wherein the gradation conversion function is a relationship between digital values of the converted image data and reflectance values of the imaged subject.

56. (Previously Presented) The electronic camera as set forth in claim 55, wherein the relationship between the digital values of the converted image data and the reflectance values of the imaged subject includes a linear relationship, a logarithmic relationship, or both.

57. (Previously Presented) The electronic camera as set forth in claim 56, wherein the recording device is configured to record a first-order coefficient of the linear relationship in the same file as the converted image data, to record a base, a first-order coefficient, and a zero-order coefficient of the logarithmic relationship in the same file as the converted image data, or both.

58. (Previously Presented) The electronic camera as set forth in claim 53, wherein the imaging device is configured to image the subject with one of a plurality of exposure values, wherein the gradation conversion device is configured to use the gradation conversion function from a plurality of gradation conversion functions based on the particular exposure value used by the imaging device, and wherein the recording device is configured to record the exposure value used by the imaging device in the same file as the converted image data.